

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
P23713APPLICATION NO.  
10/023,677INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTAPPLICANT  
James Austin Kendrick et al.FILING DATE  
February 14, 2002GROUP  
1713

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE     | NAME              | CLASS | SUBCLASS | FILING DATE<br>IF<br>APPROPRIATE |
|---------------------|--------------------|----------|-------------------|-------|----------|----------------------------------|
| <i>AK</i>           | 2,825,721          | 3/4/58   | Hogan et al.      | 260   | 88.1     | 3/26/56                          |
|                     | 2,915,513          | 12/1/59  | Leatherman et al. | 260   | 94.9     | 5/21/54                          |
|                     | 3,152,872          | 10/13/64 | Scoggin et al.    | 34    | 15       | 3/6/61                           |
|                     | 3,172,737          | 3/9/65   | Whittington       | 23    | 285      | 7/6/61                           |
|                     | 3,242,150          | 3/22/66  | Scoggin           | 260   | 88.2     | 3/31/60                          |
|                     | 3,248,179          | 4/26/66  | Norwood           | 23    | 285      | 2/26/62                          |
|                     | 3,257,363          | 6/21/66  | Miller et al.     | 260   | 88.2     | 5/22/61                          |
|                     | 3,262,922          | 7/28/66  | Payne             | 260   | 93.7     | 2/8/63                           |
|                     | 3,293,000          | 12/20/66 | Marwit            | 23    | 285      | 10/5/62                          |
|                     | 3,318,857          | 5/9/67   | Dietz             | 260   | 93.7     | 5/24/63                          |
|                     | 3,324,093          | 6/6/67   | Alleman           | 260   | 88.2     | 10/21/63                         |
|                     | 3,418,305          | 12/24/68 | Payne et al.      | 260   | 94.9     | 11/25/64                         |
|                     | 3,551,403          | 12/29/70 | Delbouille et al. | 260   | 94.9     | 8/1/68                           |
|                     | 3,625,658          | 12/7/71  | Closon            | 23    | 285      | 5/12/69                          |
|                     | 3,794,627          | 2/26/74  | Giachetto         | 260   | 88.2     | 7/27/71                          |
|                     | 3,816,383          | 6/11/74  | Stotko            | 260   | 94.9     | 5/1/72                           |
|                     | 3,858,943          | 1/7/75   | Bose et al.       | 302   | 26       | 3/13/73                          |
|                     | 3,956,061          | 5/11/76  | Young et al.      | 159   | 48 L     | 2/19/74                          |
| <i>AK</i>           | 3,956,257          | 5/11/76  | Hogan             | 526   | 64       | 8/14/75                          |

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|           |          |                     |     |     |          |
|-----------|----------|---------------------|-----|-----|----------|
| 4,007,321 | 2/8/77   | Scholz et al.       | 526 | 64  | 2/20/75  |
| 4,099,335 | 7/11/78  | Jezi et al.         | 34  | 9   | 11/19/76 |
| 4,121,029 | 10/17/78 | Irvin et al.        | 526 | 64  | 12/6/76  |
| 4,199,546 | 4/22/80  | Kirch               | 422 | 132 | 3/16/78  |
| 4,372,758 | 2/8/83   | Bobst et al.        | 55  | 48  | 9/2/80   |
| 4,383,972 | 5/17/83  | McCurdy et al.      | 422 | 131 | 7/15/81  |
| 4,395,523 | 7/26/83  | Kirch               | 526 | 64  | 5/27/82  |
| 4,424,341 | 1/13/84  | Hansen et al.       | 528 | 501 | 9/21/81  |
| 4,436,902 | 3/13/84  | Wood et al.         | 528 | 501 | 2/12/82  |
| 4,439,601 | 3/27/84  | McCurdy et al.      | 528 | 481 | 7/15/81  |
| 4,461,889 | 7/24/84  | Hanson              | 528 | 498 | 9/17/80  |
| 4,501,885 | 2/26/85  | Sherk et al.        | 528 | 501 | 10/14/81 |
| 4,589,957 | 5/20/86  | Sherk et al.        | 203 | 75  | 8/25/83  |
| 4,613,484 | 9/23/86  | Ayles et al.        | 422 | 132 | 1/30/84  |
| 4,632,976 | 12/30/86 | Asanuma et al.      | 528 | 497 | 4/16/85  |
| 4,690,804 | 9/1/87   | Robliffing          | 422 | 219 | 9/18/85  |
| 4,713,444 | 12/15/87 | Matsuyama et al.    | 528 | 502 | 5/30/86  |
| 4,737,280 | 4/12/88  | Hanson              | 210 | 181 | 5/7/84   |
| 4,794,151 | 12/27/88 | Mueller-Mall et al. | 526 | 64  | 4/8/87   |
| 4,832,915 | 5/23/89  | Messura et al.      | 422 | 62  | 12/17/84 |
| 5,183,866 | 2/2/93   | Hollovoy            | 526 | 88  | 12/30/89 |
| 5,207,929 | 5/4/93   | Sung et al.         | 210 | 774 | 8/2/91   |

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| 5,276,115 | 1/4/94   | Bohmer et al.     | 526 | 126  | 12/14/92 |
| 5,292,863 | 3/8/94   | Wang              | 528 | 483  | 11/2/92  |
| 5,314,579 | 5/24/94  | Sung              | 159 | 47.1 | 12/22/92 |
| 5,326,835 | 7/5/94   | Ahvenainen et al. | 526 | 64   | 8/20/92  |
| 5,387,659 | 2/7/95   | Hottovy et al.    | 526 | 59   | 2/8/93   |
| 5,391,656 | 2/21/95/ | Campbell et al.   | 526 | 68   | 9/24/93  |
| 5,416,179 | 5/16/95  | Welch et al.      | 526 | 160  | 3/16/94  |
| 5,436,212 | 7/25/95  | Geerts            | 502 | 113  | 4/15/94  |
| 5,455,314 | 10/3/95  | Burns et al.      | 526 | 61   | 7/27/94  |
| 5,473,020 | 12/5/95  | Peifer et al.     | 525 | 243  | 6/30/94  |
| 5,480,948 | 1/2/96   | Geerts            | 526 | 142  | 3/28/95  |
| 5,492,985 | 2/20/96  | Peifer et al.     | 526 | 127  | 5/31/95  |
| 5,565,174 | 10/15/96 | Burns et al.      | 422 | 131  | 6/6/95   |
| 5,565,175 | 10/15/96 | Hottovy et al.    | 422 | 132  | 10/1/90  |
| 5,575,979 | 11/19/96 | Hanson            | 422 | 132  | 3/4/91   |
| 5,597,892 | 1/28/97  | Hanson            | 528 | 501  | 6/6/95   |
| 5,639,334 | 6/17/97  | Debras et al.     | 526 | 64   | 10/26/94 |
| 5,712,365 | 1/27/98  | Arai et al.       | 528 | 498  | 3/20/96  |
| 5,747,407 | 5/5/98   | Martin            | 502 | 26   | 8/29/96  |
| 5,986,021 | 11/16/99 | Hokkanen et al.   | 526 | 64   | 2/10/98  |
| 6,042,790 | 3/28/00  | Hottovy et al.    | 422 | 131  | 10/24/94 |
| 6,045,661 | 4/4/00   | Kreischer et al.  | 203 | 73   | 5/20/98  |

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|---------------------|--------------------|----------|----------------|-------|----------|---|----|
|                     |                    |          |                |       |          | YES   | NO |
|                     | CA 857386          | 12/1/70  | Canada         |       |          |   |    |
|                     | EP 415427          | 3/6/91   | EPO            |       |          |   |    |
|                     | EP 416379          | 3/13/91  | EPO            |       |          |   |    |
|                     | EP 432555          | 6/19/91  | EPO            |       |          |   |    |
|                     | EP 648697          | 4/19/95  | EPO            |       |          |   |    |
|                     | EP 891998          | 1/20/99  | EPO            |       |          |   |    |
|                     | JP 72013367        | 1972     | Japan          |       |          | X<br>(English-<br>language<br>translation<br>of abstract) |    |
|                     | JP 62-13408        | 8/14/89  | Japan          |       |          | X   |    |
|                     | JP 07-286004       | 10/31/95 | Japan          |       |          | X   |    |
|                     | GB 841263          | 7/13/60  | United Kingdom |       |          |   |    |
|                     | GB 1 435 965       | 5/19/76  | United Kingdom |       |          |   |    |
|                     | WO 01/05842 A1     | 1/25/01  | PCT            |       |          |   |    |
|                     | WO 99/47251        | 09/23/99 | PCT            |       |          |   |    |
|                     | WO 99/60028        | 11/25/99 | PCT            |       |          |   |    |
|                     | DE 1800935         | 05/69    | Germany        |       |          |   |    |
|                     | WO 97/36942        | 10/09/97 | PCT            |       |          |   |    |
|                     | WO 00/02929        | 01/20/00 | PCT            |       |          |   |    |

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|  |              |          |         |  |  |  |  |
|--|--------------|----------|---------|--|--|--|--|
|  | EP 0 519 266 | 12/23/92 | Europe  |  |  |  |  |
|  | EP 0 479 186 | 04/08/92 | Europe  |  |  |  |  |
|  | FI 96216     | 2/15/96  | Finland |  |  |  |  |
|  | WO96/18662   | 6/20/96  | PCT     |  |  |  |  |

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|                     | Michael Arne, SRI International, HIGH DENSITY POLYETHYLENE, Supplement D, A private report by the PROCESS ECONOMICS PROGRAM, May 1989.   |
|                     | K.B. Bryan et al., "Polypropylene: Supplement A." <u>SRI International Report</u> , Process Economics Program, Report No. 128A, August (1993).                                 |
|                     | J.P. Hogan et al., "Phillips Petroleum Company Loop Reactor Polyethylene Technology," <u>Journal of Applied Polymer Science</u> , Applied Polymer Symposium, 36, 49-60 (1981). |
|                     | R.H. Perry & C.H. Chilton (Eds.), <u>Chemical Engineers' Handbook</u> (5th ed.), McGraw-Hill, Inc., New York, New York, pp. 5-46 - 5-47 (1973).                                |
|                     | "Total Quality Report", Baton Rouge, Louisiana, Vol. 13, No. 1, Jan/Feb. p. 4 (1998).  |
|                     | USSN: 09/080,412 entitled "Continuous Slurry Polymerization Volatile Removal", filed May 18, 1998, Inventor: James Austin Kendrick (98B014/2)                                  |
|                     | USSN: 09/955,729 entitled "Continuous Slurry Polymerization Volatile Removal", filed September 19, 2001, Inventors: James Austin Kendrick et al. (98B014A/3)                   |
|                     | USSN: 10/085,809 entitled "Continuous Slurry Polymerization Process and Apparatus", filed February 28, 2002, Inventor: James Austin Kendrick (98B014E)                         |
|                     | USSN: 10/147,219 entitled "Continuous Slurry Polymerization Volatile Removal", filed May 14, 2002, Inventor: James Austin Kendrick (98B014/6)                                  |
|                     | USSN: 09/992,770 entitled "Continuous Slurry Polymerization Volatile Removal", filed November 6, 2001, Inventors: James Austin Kendrick et al. (98B014B)                       |
|                     | USSN: 09/992,590 entitled "Continuous Slurry Polymerization Volatile Removal", filed November 6, 2001, Inventors: James Austin Kendrick et al. (98B014C)                       |
|                     | USSN: 10/375,660 entitled "Continuous Slurry Polymerization Process and Apparatus", filed February 27, 2003, Inventors: James Austin Kendrick et al. (98B014A/4)               |
|                     | USSN: 10/079,226 entitled "Continuous Slurry Polymerization Process and Apparatus", filed February 19, 2002, Inventors: James Austin Kendrick et al. (98B014D)                 |
|                     | USSN: 10/260,010 entitled "Continuous Slurry Polymerization Process and Apparatus", filed March 11, 2003, Inventors: James Austin Kendrick et al. (98B014A/5)                  |
|                     | USSN: 10/260,011 entitled "Continuous Slurry Polymerization Process and Apparatus", filed March 11, 2003, Inventors: James Austin Kendrick et al. (98B014B/2)                  |

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